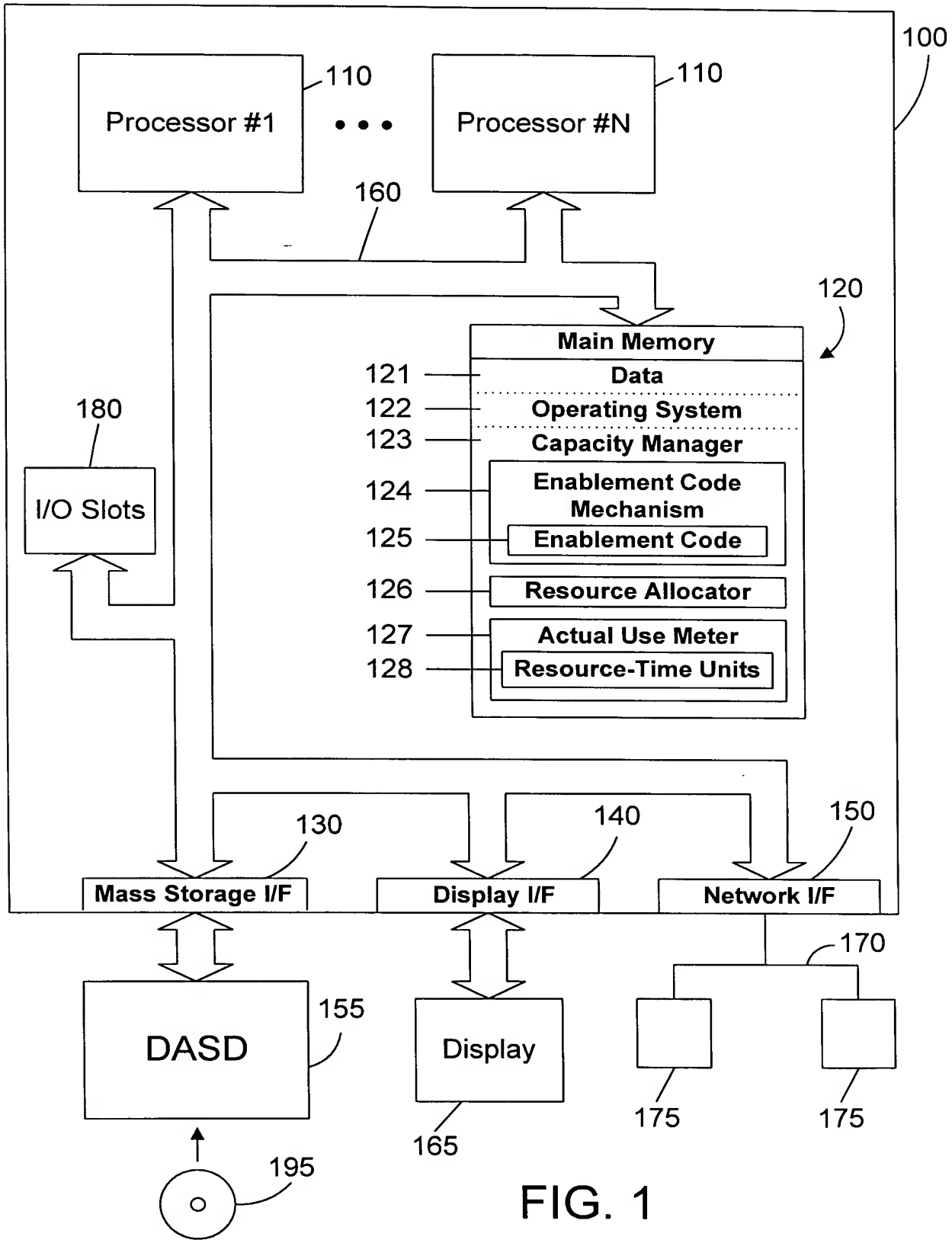
100
Processor #1
110
Processor #N
110
160
120
Main Memory
121
Data
122
Operating System
123
Capacity Manager
124
Enablement Code Mechanism
125
Enablement Code
126
Resource Allocator
127
Actual Use Meter
128
Resource-Time Units
180
I/O Slots
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

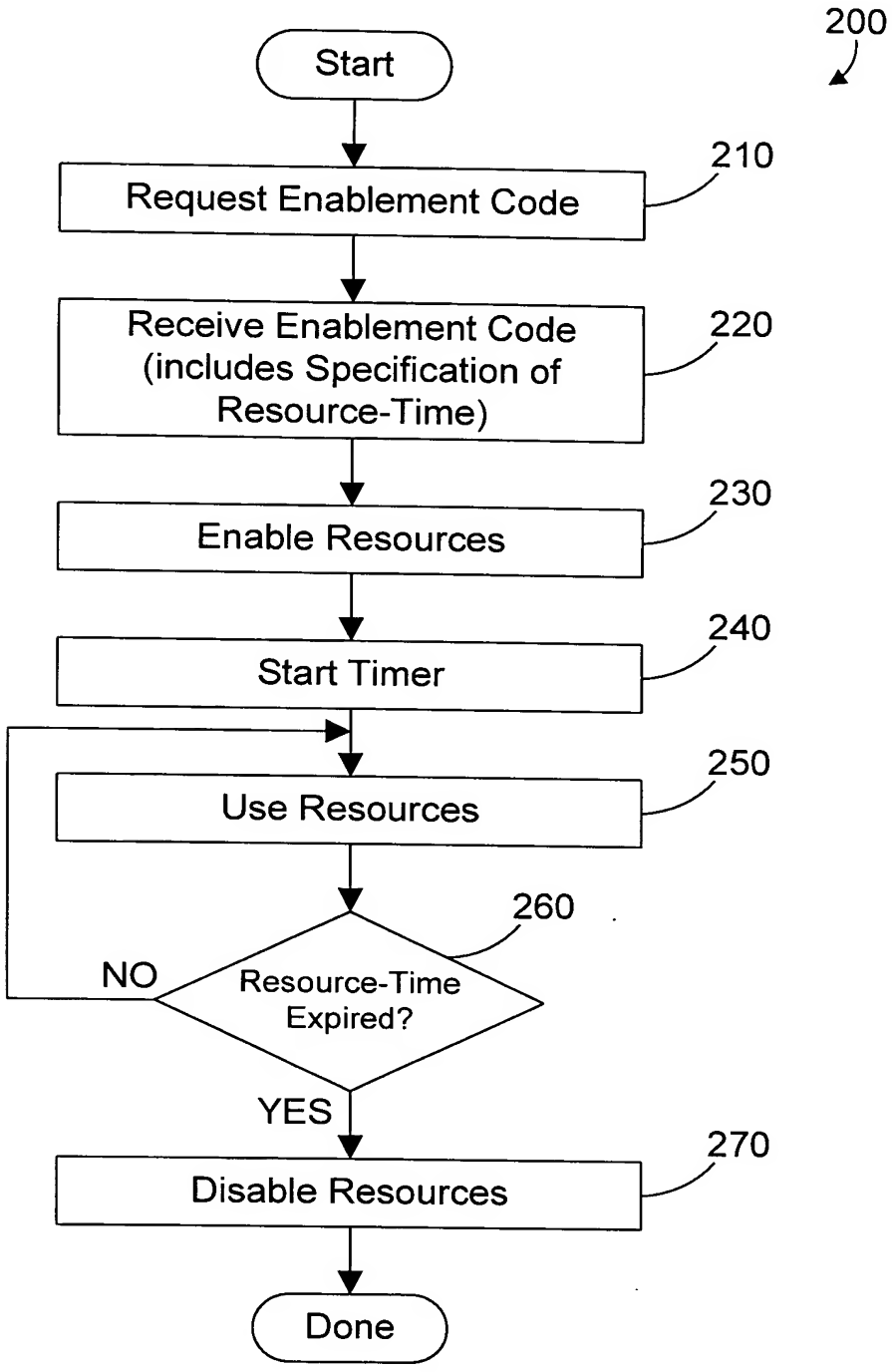
200
Start
210
Request Enablement Code
220
Receive Enablement Code (includes Specification of Resource-Time)
230
Enable Resources
240
Start Timer
250
Use Resources
260
Resource-Time Expired?
NO
YES
270
Disable Resources
Done

FIG. 2

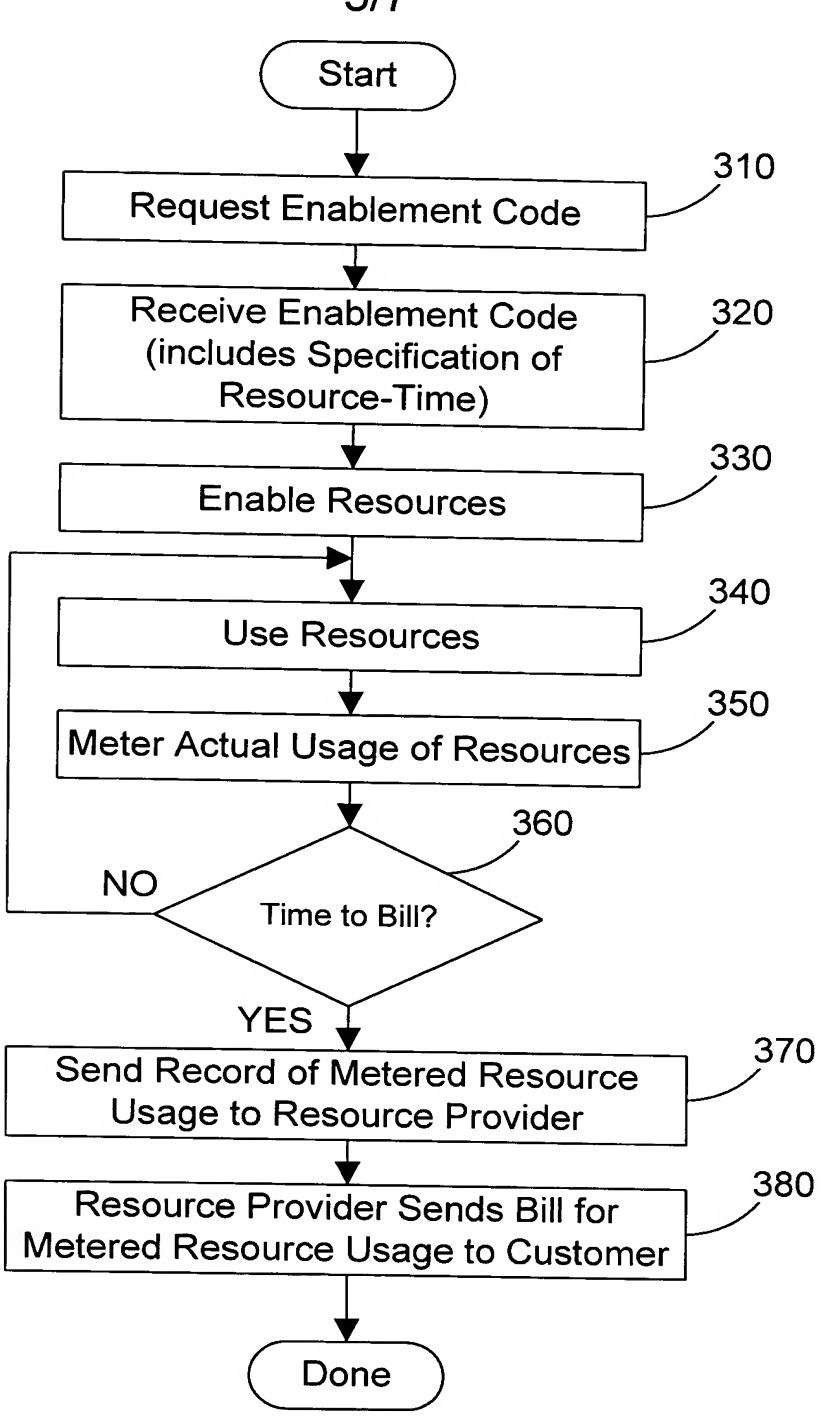
300
Start
310
Request Enablement Code
320
Receive Enablement Code (includes Specification of Resource-Time)
330
Enable Resources
340
Use Resources
350
Meter Actual Usage of Resources
360
Time to Bill?
NO
YES
370
Send Record of Metered Resource Usage to Resource Provider
380
Resource Provider Sends Bill for Metered Resource Usage to Customer
Done

FIG. 3

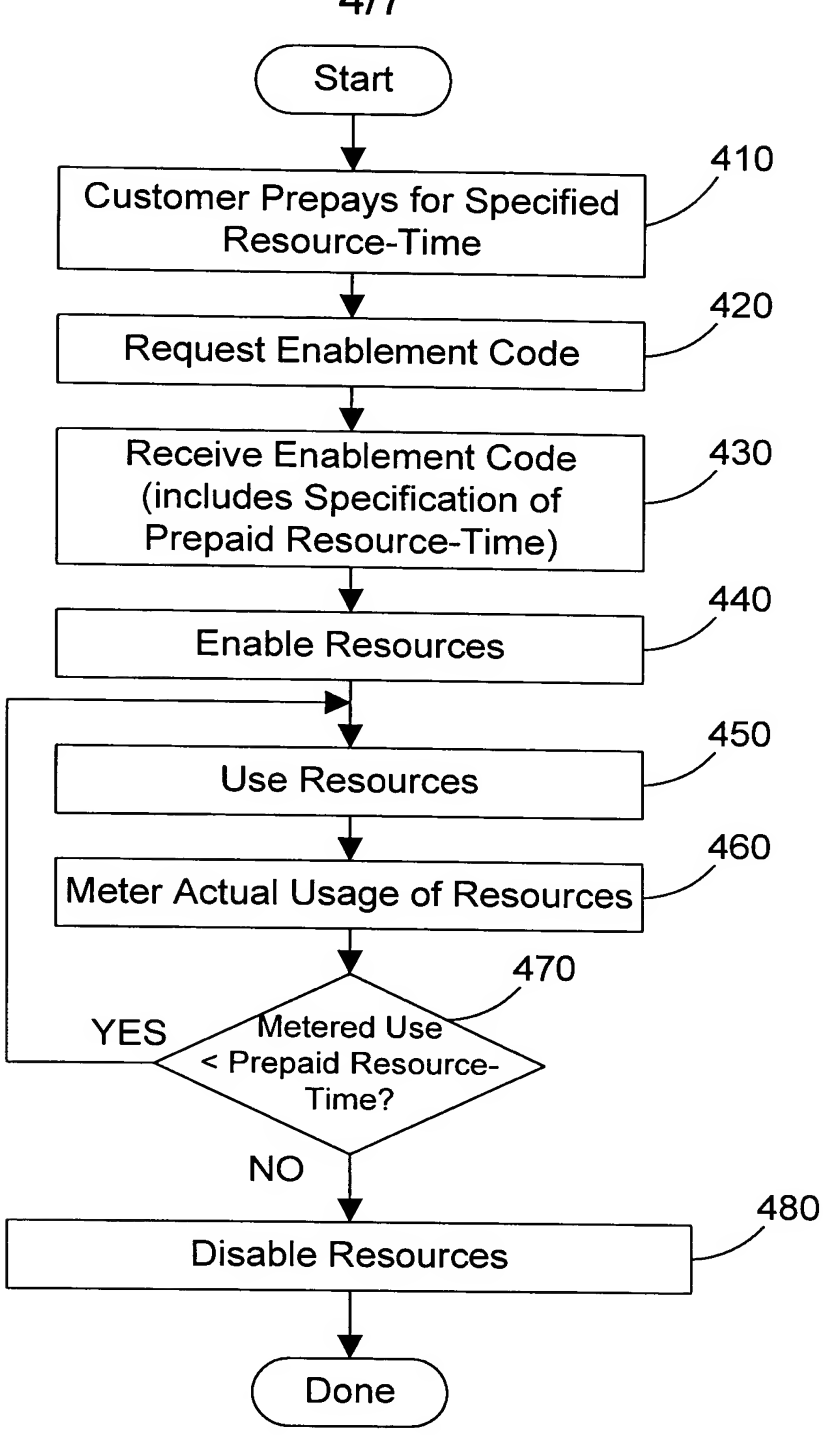
400
Start
410
Customer Prepays for Specified Resource-Time
420
Request Enablement Code
430
Receive Enablement Code (includes Specification of Prepaid Resource-Time)
440
Enable Resources
450
Use Resources
460
Meter Actual Usage of Resources
470
Metered Use < Prepaid Resource-Time?
YES
NO
480
Disable Resources
Done

FIG. 4

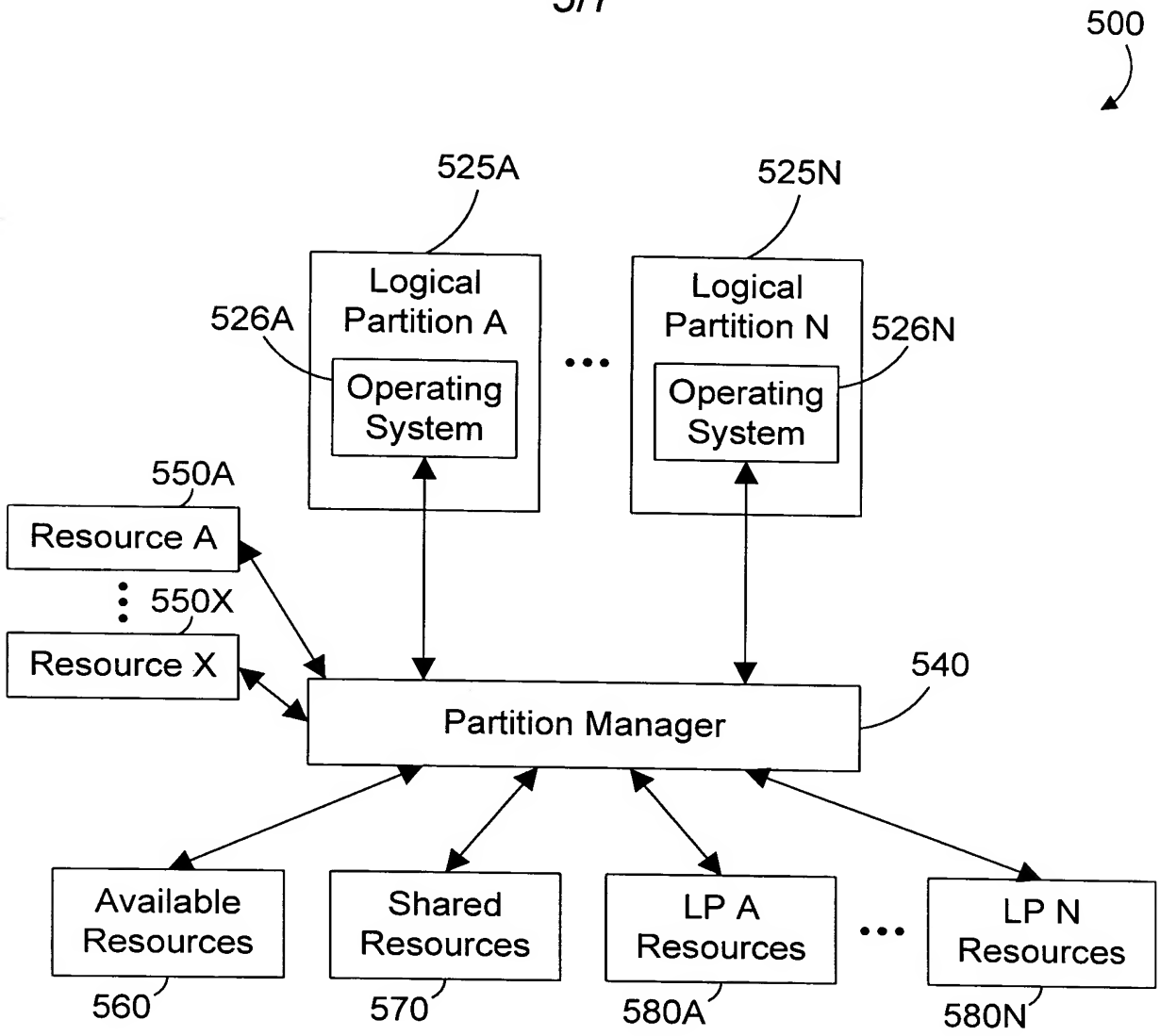
500
525A
525N
Logical Partition A
Logical Partition N
526A
526N
Operating System
Operating System
550A
Resource A
550X
Resource X
540
Partition Manager
Available Resources
Shared Resources
LP A Resources
LP N Resources
560
570
580A
580N

FIG. 5

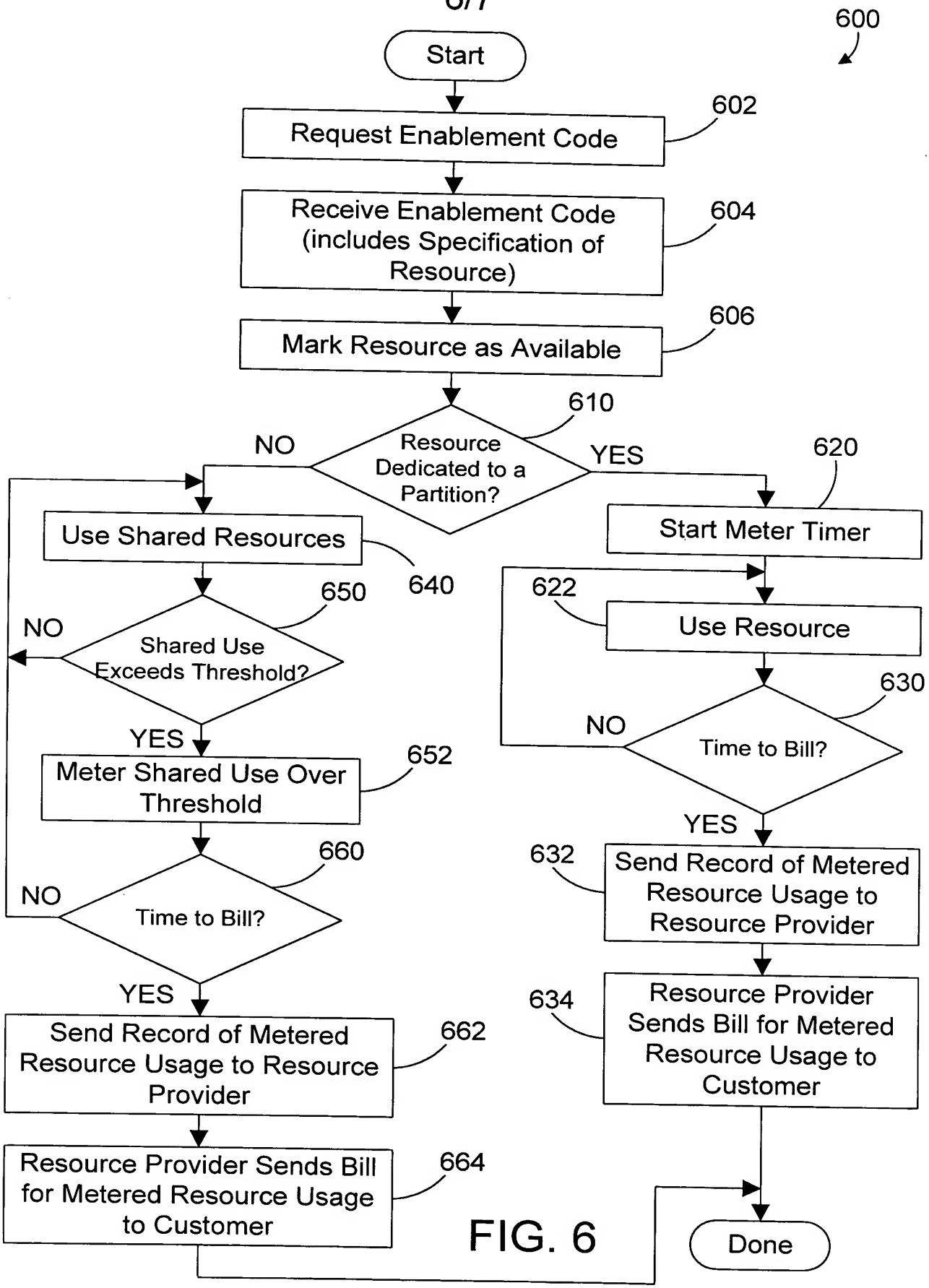
600
Start
Request Enablement Code
602
Receive Enablement Code (includes Specification of Resource)
604
Mark Resource as Available
606
Resource Dedicated to a Partition?
610
NO
YES
620
Use Shared Resources
640
Start Meter Timer
650
Shared Use Exceeds Threshold?
NO
YES
622
Use Resource
630
Time to Bill?
NO
YES
652
Meter Shared Use Over Threshold
660
Time to Bill?
NO
YES
632
Send Record of Metered Resource Usage to Resource Provider
634
Resource Provider Sends Bill for Metered Resource Usage to Customer
662
Send Record of Metered Resource Usage to Resource Provider
664
Resource Provider Sends Bill for Metered Resource Usage to Customer
Done

FIG. 6

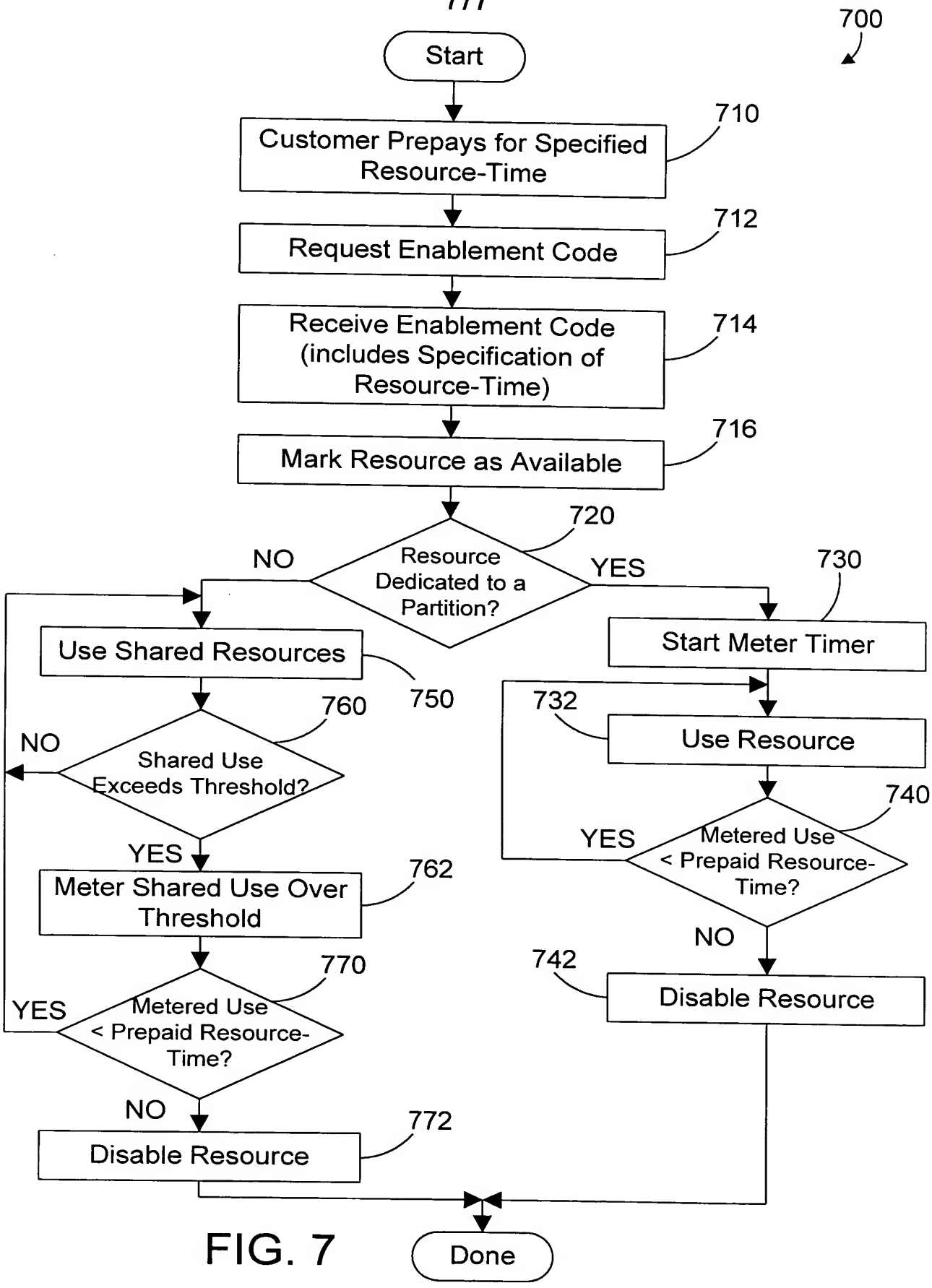
700
Start
710
Customer Prepays for Specified Resource-Time
712
Request Enablement Code
714
Receive Enablement Code (includes Specification of Resource-Time)
716
Mark Resource as Available
720
Resource Dedicated to a Partition?
NO
YES
730
Start Meter Timer
Use Shared Resources
750
760
Shared Use Exceeds Threshold?
NO
YES
762
Meter Shared Use Over Threshold
770
Metered Use < Prepaid Resource-Time?
YES
NO
772
Disable Resource
732
Use Resource
740
Metered Use < Prepaid Resource-Time?
YES
NO
742
Disable Resource
Done

FIG. 7